## WHAT IS CLAIMED IS:

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- 1. An isolated polynucleotide comprising:
- a) a nucleotide sequence encoding a polypeptide
   comprising the amino acid sequence of SEQ ID
   No:2:
  - a nucleotide sequence encoding a polypeptide comprising amino acid residues 72-93, 147-162, 191-211 OR 217-238 of SEO ID NO:2;
  - c) a nucleotide sequence encoding a polypeptide comprising the amino acid sequence of SEQ ID No:4;
    - d) a nucleotide sequence encoding a polypeptide comprising amino acid residues 55-76, 132-150, 177-199 or 213-234 of SEO ID NO:4;
    - e) a nucleotide sequence encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:6:
    - f) a nucleotide sequence encoding a polypeptide comprising amino acid residues 47-68, 123-138, 167-187 or 193-214 of SEQ ID NO:6;
  - g) a nucleotide sequence encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:8;
    - h) a nucleotide sequence encoding a polypeptide comprising amino acid residues 46-67, 122-140, 166-187 or 194-213 of SEQ ID NO:8;
    - i) a nucleotide sequence encoding a polypeptide comprising the amino acid sequence of SEQ ID NO:9:
      - j) a nucleotide sequence encoding a polypeptide comprising amino acid residues 77-98, 153-167, 197-217 or 223-242 of SEQ ID NO:9;
- k) nucleotides 232-1599, 445-513, 670-717, 802-30 864 or 880-945 of the nucleotide sequence of SEQ ID No:1;

- nucleotides 83-1669, 245-310, 476-532, 611-679
  or 719-784 of the nucleotide sequence of SEQ
  ID NO:3;
- m) nucleotides 247-1530, 385-450, 613-660, 745-807 or 823-888 of the nucleotide sequence of SEQ ID No:5; or
- n) nucleotides 205-1599, 340-395, 568-624, 700-765 or 784-843 of the nucleotide sequence of SEQ ID NO:7.
- 10 2. An isolated polynucleotide which hybridizes to the complement of the polynucleotide of Claim 1 under stringent hybridization conditions.
- An isolated polynucleotide which comprises the complement of the polynucleotide of Claim 1.
  - 4. A vector comprising the isolated polynucleotide of Claim 1 or 2.
  - 5. An expression vector comprising the isolated polynucleotide of Claim 1 or 2.
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- 6. A host cell genetically engineered to contain the polynucleotide of Claim 1 or 2.
- 7. A host cell genetically engineered to contain the polynucleotide of Claim 1 or 2 in operative association with 25 a regulatory sequence that controls expression of the polynucleotide in the host cell.
  - 8. An isolated polypeptide comprising:
    - a) the amino acid sequence of SEQ ID NO:2;
    - b) amino acid residues 72-93, 147-162, 191-211 OR 217-238 of SEO ID NO:2;
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- c) the amino acid sequence of SEQ ID NO:4:
- d) amino acid residues 55-76, 132-150, 177-199 or 213-234 of SEQ ID NO:4;

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- e) the amino acid sequence of SEQ ID NO:6;
- f) amino acid residues 47-68, 123-138, 167-187 or 193-214 of SEQ ID NO:6;
- g) the amino acid sequence of SEQ ID NO:8;
  - amino acid residues 46-67, 122-140, 166-187 or 194-213 of SEQ ID NO:8;
  - i) the amino acid sequence of SEQ ID NO:9; or
  - j) amino acid residues 77-98, 153-167, 197-217 or 223-242 of SEQ ID NO:9;
- 10 9. A composition comprising the polypeptide of Claim 8 and a carrier.
  - 10. An antibody directed against the polypeptide of Claim 8.
- 11. A method for detecting a polynucleotide of Claim 1 or 2 in a sample, comprising:
  - a) contacting the sample with a compound that binds to and forms a complex with the polynucleotide for a period sufficient to form the complex; and
- 20 b) detecting the complex, so that if a complex is detected, a polynucleotide of Claim 1 or 2 is detected.
  - 12. A method for detecting a polynucleotide of Claim 1
    or 2 in a sample, comprising:
  - a) contacting the sample under stringent hybridization conditions with nucleic acid primers that anneal to a polynucleotide of Claim 1 or 2 under such conditions; and
    - b) amplifying the annealed polynucleotides,
- so that if a polynucleotide is amplified, a polynucleotide of 30 Claim 1 or 2 is detected.
  - 13. The method of Claim 12, wherein the polynucleotide is an RNA molecule that encodes a polypeptide of Claim 8, and

the method further comprises reverse transcribing an annealed RNA molecule into a cDNA polynucleotide.

- 14. A method for detecting a polypeptide of Claim 8 in 5 a sample, comprising:
  - contacting the sample with a compound that a) binds to and forms a complex with the polypeptide for a period sufficient to form the complex; and
    - detecting the complex,
- 10 so that if a complex is detected, a polypeptide of Claim 8 is detected.
  - 15. A method for identifying a compound that binds to a polypeptide of Claim 8, comprising:
  - contacting a compound with a polypeptide of a) Claim 8 for a time sufficient to form a polypeptide/compound complex; and
    - detecting the complex,

so that if a polypeptide/compound complex is detected, a compound that binds to a polypeptide of Claim 8 is identified.

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- 16. A method for identifying a compound that binds to a polypeptide of Claim 8, comprising:
  - contacting a compound with a polypeptide of a) Claim 8, in a cell, for a time sufficient to form a polypeptide/compound complex, wherein the complex drives expression of a reporter gene seguence in the cell; and
  - detecting the complex by detecting reporter gene sequence expression,

so that if a polypeptide/compound complex is detected, a compound that binds to a polypeptide of Claim 8 is 30 identified.

17. A method of modulating activity of a polypeptide of Claim 8, comprising contacting a cell that expresses the

polypeptide with a compound that modulates activity of the polypeptide for a time sufficient to modulate said activity.

18. A method of modulating activity of the polypeptide 5 of Claim 8, comprising contacting the polypeptide with a compound that modulates activity of the polypeptide for a time sufficient to modulate said activity.

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